> d his

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(FILE 'HOME' ENTERED AT 09:28:32 ON 30 MAY 2003)
    FILE 'REGISTRY' ENTERED AT 09:28:45 ON 30 MAY 2003
             1 S LEVAN/CN
L1
     FILE 'BIOSIS, BIOTECHNO, CAPLUS, EMBASE, MEDLINE' ENTERED AT 09:29:44 ON
     30 MAY 2003
L2
         1254 S 9013-95-0
L3
        263383 S IMMOBILIZ?
L4
            55 S L2 AND L3
L5
            26 DUPLICATE REMOVE L4 (29 DUPLICATES REMOVED)
L6
        449785 S CARRIER
L7
            39 S L2 AND L6
L8
            26 DUPLICATE REMOVE L7 (13 DUPLICATES REMOVED)
L9
       174568 S POLYSACCHARIDE?
L10
           350 S L2 AND L9
      1366042 S MICROORGANISM OR BACTERIA
L11
L12
            69 S L10 AND L11
L13
            57 DUPLICATE REMOVE L12 (12 DUPLICATES REMOVED)
L14
          2984 S L3 (3W) L11
            2 S L14 AND L2
L15
         17574 S BIOREMEDIAT?
L16
L17
             1 S L2 AND L16
L18
        174629 S GLUTAMIC (2A) ACID
L19
          1462 S L18 AND L3
L20
            84 S L11 AND L19
L21
            73 DUPLICATE REMOVE L20 (11 DUPLICATES REMOVED)
L22
           843 S ZOOGLOEA
    175244 S POLYSACCHARID?
L23
L24
            97 S L22 AND L23
L25
            60 DUPLICATE REMOVE L24 (37 DUPLICATES REMOVED)
           683 S EXTRACELLULAR (3A) POLYMER
L26
L27
        263383 S IMMOBILIZ?
L28
            22 S L26 AND L27
    FILE 'REGISTRY' ENTERED AT 09:57:08 ON 30 MAY 2003
L29
     53929 S GLUTAMIC/CNS
       5893466 S ACID/CNS
L30
L31
       89884 S BENZYL/CNS
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(FILE 'HOME' ENTERED AT 09:28:32 ON 30 MAY 2003)

FILE 'REGISTRY' ENTERED AT 09:28:45 ON 30 MAY 2003 L1 1 S LEVAN/CN

FILE 'BIOSIS, BIOTECHNO, CAPLUS, EMBASE, MEDLINE' ENTERED AT 09:29:44 ON 30 MAY 2003

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FILE 'REGISTRY' ENTERED AT 09:57:08 ON 30 MAY 2003
L29
       53929 S GLUTAMIC/CNS
L30
       5893466 S ACID/CNS
L31
        89884 S BENZYL/CNS
L32
          833 S L29 AND L30 AND L31
L33
       1217427 S "L"/CNS
L34
           687 S L32 AND L33
L35
         22693 S (BENZYL(2A)ESTER)/CNS
L36
         46948 S L29 AND L30 AND L33
L37
           325 S L36 AND L35
L38
         14998 S ("BENZYL ESTER")/CNS
L39
         52298 S ("GLUTAMIC ACID")/CNS
          196 S L38 AND L39
L40
L41
           156 S L40 AND L33
L42
          4355 S ("N-BENZYL ESTER")/CNS
           107 S L41 NOT L42
L43
           104 S PRAESTOL/CNS
L44
L45
            0 S ("PRAESTOL 185")/CNS
         20814 S K/CNS
L46
L47
             6 S L46 AND L44
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L Number	Hits	Search Text	DB	Time stamp
1	265556	microorganism or bacteria	USPAT;	2003/05/30 10:11
			US-PGPUB;	
			ЕРО; ГРО;	
			DERWENT;	
			IBM_TDB	
2	81980	immobiliz\$	USPAT;	2003/05/30 10:11
			US-PGPUB;	
			EPO; JPO;	
			DERWENT; IBM_TDB	
3	389371	precipit\$	USPAT;	2003/05/30 10:11
'	307371	precipito	US-PGPUB;	2003/03/30 10:11
			EPO; JPO;	
		•	DERWENT;	
			IBM_TDB	
4	111	(microorganism or bacteria) same immobiliz\$ same precipit\$	USPĀT;	2003/05/30 10:12
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
		105,000 000 0	IBM_TDB	0000107100101
5	1264	435/262, 262.5.ccls.	USPAT;	2003/05/30 10:12
			US-PGPUB;	
			EPO; JPO; DERWENT;	
			IBM_TDB	
6	338705	emulsion	USPAT;	2003/05/30 10:12
	330703		US-PGPUB;	2003/03/30 10:12
			ЕРО; ЛРО;	
			DERWENT;	
			IBM_TDB	
7	135	(435/262, 262.5.ccls.) and emulsion	USPAT;	2003/05/30 10:13
			US-PGPUB;	
			ЕРО; ЛРО;	
			DERWENT;	
8	656	(microorganism or bacteria) near5 emulsion	IBM_TDB USPAT;	2003/05/30 10:13
°	050	(interoorganism of bacteria) near 3 emulsion	US-PGPUB;	2003/03/30 10.13
			ЕРО; ЛРО;	
			DERWENT;	
			IBM_TDB	
9	31716	glutamic adj2 acid	USPAT;	2003/05/30 10:13
			US-PGPUB	
10	40	((microorganism or bacteria) near5 emulsion) and (glutamic adj2 acid)	USPAT;	2003/05/30 10:17
			US-PGPUB	
11	120244	emulsif\$	USPAT;	2003/05/30 10:17
12	272110	amulaian an (mianaananian a- la-ta-ia)	US-PGPUB	2002/05/20 10 15
12	272119	emulsion or (microorganism or bacteria)	USPAT;	2003/05/30 10:17
13	212974	emulsion or emulsif\$	US-PGPUB	2003/05/20 10:17
13	£127/4	Citation of Charlet	USPAT; US-PGPUB	2003/05/30 10:17
14	358	(glutamic adj2 acid) same (emulsion or emulsif\$)	USPAT;	2003/05/30 10:18
*	553	(December 2 and) country (animalous of animalous of)	US-PGPUB	2000,000,00 10.10
15	80	(microorganism or bacteria) same ((glutamic adj2 acid) same (emulsion	USPAT;	2003/05/30 10:19
		or emulsif\$))	US-PGPUB	
16	1	(435/262, 262.5.ccls.) and ((glutamic adj2 acid)) same (emulsion or	USPAT;	2003/05/30 10:20
		emulsif\$))	US-PGPUB	
17	186	(435/262, 262.5.ccls.) and (emulsion or emulsif\$)	USPAT;	2003/05/30 10:21
			US-PGPUB	
18	992	levan	USPAT;	2003/05/30 10:21
	,	((425/262-262-5 cole) and (1-i	US-PGPUB	2002/05/20 10 21
19	1	((435/262, 262.5.ccls.) and (emulsion or emulsif\$)) and levan	USPAT;	2003/05/30 10:21
			US-PGPUB	

- 25772 glutamic US-PGPUB USPAT, US-					
25772 glutamic	-	1942	435/177-182.ccls.	USPAT;	2002/07/19 14:55
191 435/177-182.ccls. and glutamic USPAT, USPACPUB USPAT,	-	25772	glutamic	USPAT;	2002/06/21 09:54
- 23046 glutamic adj2 acid USPAT, USPCPUB USPAT, USPCPUB USPAT, USPCPUB USPAT, USPACPUB USPAT, USPA	-	191	435/177-182.ccls. and glutamic	1	2002/06/21 09:54
US-PGPUB			, and the second	US-PGPUB	
2002/06/21 10	-	23046	glutamic adj2 acid		2003/05/30 10:13
2002/06/21 10 2002/06/21 1	-	156	435/177-182.ccls. and (glutamic adj2 acid)		2002/06/21 10:10
September Sept	1	025	1		2002/06/21 10:10
US-PGPUB DERWENT 2002/06/21 10 DERWE	-	833	levan		2002/06/21 10:10
S8478	-	9	435/177-182.ccls. and levan		2002/06/21 10:13
4711		05470			2002/06/21 10:12
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190	-		1	I.	
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747113	-		l .		
10.5	-	_	'',		
289080 carrier 2002/06/21 10 Carrier	-				
4587	-		, , , ,		
2 levan and ((microorganism or bacteria) and carrier) DERWENT 2002/06/21 10 2002/06/	-				2002/06/21 10:13
- 2936 polymer near5 carrier 116 (polymer near5 carrier) and (microorganism or bacteria) DERWENT 2002/06/21 10	-	4587			2002/06/21 10:14
116	-	2		DERWENT	2002/06/21 10:14
- 906 c12n011/02.ipc. c12n011/02.ipc. and levan DERWENT c12n011/02.ipc. and levan DERWENT 2002/06/21 10 20	-	2936	polymer near5 carrier	DERWENT	2002/06/21 10:14
1	-	116	(polymer near5 carrier) and (microorganism or bacteria)	DERWENT	2002/06/21 10:16
158	-	906	c12n011/02.ipc.	DERWENT	2002/06/21 10:16
139	-	1	c12n011/02.ipc. and levan	DERWENT	2002/06/21 10:18
139	-	158	fructofuranosyl or fructosyl	DERWENT	2002/06/21 10:18
139 fructofuranosyl USPAT; US-PGPUB USPA	-	2		DERWENT	2002/06/21 10:19
SPGPUB USPAT; U	-	139		USPAT:	2002/06/21 10:19
Signature Continue			ĺ		
430 fructofuranosyl or fructosyl USPAT; US-PGPUB US-PGPU	-	316	fructosyl	USPAT;	2002/06/21 10:19
- 446 435/178.ccls. US-PGPUB USPAT; US-PGPUB US-PGPUB USPAT; US-PGPUB U					
- 446 435/178.ccls. 1 (fructofuranosyl or fructosyl) and 435/178.ccls. 1 (fructofuranosyl or fructosyl) and 435/178.ccls. 2002/06/21 10	-	430	fructofuranosyl or fructosyl	-	2002/06/21 10:20
- 1 (fructofuranosyl or fructosyl) and 435/178.ccls. 1 (US-PGPUB USPAT; US-PGPUB US-PGPU		116	435/179 colo		2002/06/21 10:20
- 1 (fructofuranosyl or fructosyl) and 435/178.ccls. USPAT; US-PGPUB DERWENT D	_	770	433/176.0015.		2002/00/21 10.20
- 835 levan - 4 435/178.ccls. and levan - 56486 degrade or degrading or degradation - 1468 biodegrade or biodegrading or biodegradation - 1574 (microorganism or bacteria) same (degrade or degradation) - 2943 (biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degradation)) - 3 ((biodegrade or biodegrading or biodegradation)) - 3 ((biodegrade or biodegrading or biodegradation)) or ((microorganism or bacteria) same (degrade or degradation))) and levan - 60459 aminoacid or (amino adj2 acid) - 742 (aminoacid or (amino adj2 acid)) near5 polymer - ((aminoacid or (amino adj2 acid)) near5 polymer) and ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same	_	1	(fractofaranosyl or fractosyl) and 435/178 ccls	1	2002/06/21 10:20
- 835 levan - 4 435/178.ccls. and levan - 56486 degrade or degrading or biodegradation - 1468 biodegrade or biodegrading or biodegradation - 1574 (microorganism or bacteria) same (degrade or degradation) - 2943 (biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degradation)) - 3 ((biodegrade or biodegrading or biodegradation)) - 3 ((biodegrade or biodegrading or biodegradation)) or ((microorganism or bacteria) same (degrade or degradation))) and levan - 60459 aminoacid or (amino adj2 acid) - 742 (aminoacid or (amino adj2 acid)) near5 polymer - ((aminoacid or (amino adj2 acid)) near5 polymer) and ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same	-		(Huctorulanosy) of Huctosy) and 455/176.0018.		2002/00/21 10.20
- 4 435/178.ccls. and levan - 56486 degrade or degrading or degradation - 1468 biodegrade or biodegrading or biodegradation - 1574 (microorganism or bacteria) same (degrade or degradation) or ((microorganism or bacteria) same (degrade or degradation)) - 2943 (biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degradation)) - 3 ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degradation)) or ((microorganism or bacteria) same (degrade or degradation))) and levan - 60459 aminoacid or (amino adj2 acid) - 742 (aminoacid or (amino adj2 acid)) near5 polymer - ((aminoacid or (amino adj2 acid)) near5 polymer) and ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same	l <u> </u>	835	levan		2002/06/21 10:20
- 4 435/178.ccls. and levan - 56486 degrade or degrading or degradation - 1468 biodegrade or biodegrading or biodegradation - 1574 (microorganism or bacteria) same (degrade or degradation) or ((microorganism or bacteria) same (degrade or degradation)) - 2943 (biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degradation)) - 3 ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degradation)) or ((microorganism or bacteria) same (degrade or degrading or degradation))) and levan - 60459 aminoacid or (amino adj2 acid) - 742 (aminoacid or (amino adj2 acid)) near5 polymer - ((aminoacid or (amino adj2 acid)) near5 polymer) and ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same		655	icvan		2002/00/21 10.20
- 56486 degrade or degrading or degradation - 1468 biodegrade or biodegrading or biodegradation - 1574 (microorganism or bacteria) same (degrade or degradation) - 2943 (biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degradation)) - 3 ((biodegrade or biodegrading or biodegradation)) or ((microorganism or bacteria) same (degrade or degradation)) or ((microorganism or bacteria) same (degrade or degradation)) and levan - 60459 aminoacid or (amino adj2 acid) - 742 (aminoacid or (amino adj2 acid)) near5 polymer - ((aminoacid or (amino adj2 acid)) near5 polymer) and ((biodegrade or biodegrading or biodegradation)) or ((microorganism or bacteria) same	<u> </u>	1	435/178 ccls, and levan		2002/06/21 10:21
- 56486 degrade or degrading or degradation - 1468 biodegrade or biodegrading or biodegradation - 1574 (microorganism or bacteria) same (degrade or degradation) - 2943 (biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degradation)) - 3 ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degradation)) or ((microorganism or bacteria) same (degrade or degradation)) or ((microorganism or bacteria) same (degrade or degradation))) and levan - 60459 aminoacid or (amino adj2 acid) - 742 (aminoacid or (amino adj2 acid)) near5 polymer - ((aminoacid or (amino adj2 acid)) near5 polymer) and ((biodegrade or biodegrading or biodegradation)) or ((microorganism or bacteria) same		4	133/1/0.0015. and fevan		2002/00/21 10.21
- 1468 biodegrade or biodegrading or biodegradation 1574 (microorganism or bacteria) same (degrade or degrading or degradation) DERWENT 2002/06/21 10 2943 (biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degradation)) ((biodegrade or biodegrading or degradation)) ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degrading or degradation)) and levan 2002/06/21 10 2002/06/21 2	_	56186	degrade or degrading or degradation		2002/06/21 10:21
- 1574 (microorganism or bacteria) same (degrade or degradation) or ((microorganism or bacteria) same (degrade or biodegradation) or ((microorganism or bacteria) same (degrade or degradation)) - 3 ((biodegrade or biodegrading or biodegradation)) or ((microorganism or bacteria) same (degrade or biodegradation) or ((microorganism or bacteria) same (degrade or degradation))) and levan - 60459 aminoacid or (amino adj2 acid) - 742 (aminoacid or (amino adj2 acid)) near5 polymer - ((aminoacid or (amino adj2 acid)) near5 polymer) and ((biodegrade or biodegrading or biodegradation)) or ((microorganism or bacteria) same	-				
- 2943 (biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degradation)) - 3 ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degrading or degradation)) and levan - 60459 aminoacid or (amino adj2 acid) - 742 (aminoacid or (amino adj2 acid)) near5 polymer - 6 ((aminoacid or (amino adj2 acid)) near5 polymer) - 6 ((aminoacid or (amino adj2 acid)) near5 polymer) and ((biodegrade or biodegrading or biodegradation)) or ((microorganism or bacteria) same	-				
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- 3 ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same (degrade or degrading or degradation))) and levan - 60459 aminoacid or (amino adj2 acid)) near5 polymer - 6 ((aminoacid or (amino adj2 acid)) near5 polymer and ((biodegrade or biodegrading or biodegradation)) or ((microorganism or bacteria) same DERWENT 2002/06/21 10: 2002	-	2943		DEKWENI	2002/00/21 10:22
bacteria) same (degrade or degrading or degradation))) and levan aminoacid or (amino adj2 acid) aminoacid or (amino adj2 acid)) near5 polymer (aminoacid or (amino adj2 acid)) near5 polymer ((aminoacid or (amino adj2 acid)) near5 polymer) and ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same bacteria) same (degrade or degradation))) and levan DERWENT DERWENT 2002/06/21 10: 2002/06/21]	2		DEDUZATE	2002/06/21 10:22
- 60459 aminoacid or (amino adj2 acid) - 742 (aminoacid or (amino adj2 acid)) near5 polymer - 6 ((aminoacid or (amino adj2 acid)) near5 polymer) and ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same DERWENT 2002/06/21 10: 200	-	3		DEKWENI	2002/06/21 10:23
- 742 (aminoacid or (amino adj2 acid)) near5 polymer - 6 ((aminoacid or (amino adj2 acid)) near5 polymer) and ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same DERWENT 2002/06/21 10: 2002/06/21 10:		(0.450		DDDH 777 77	2002/06/21 10 22
- 6 ((aminoacid or (amino adj2 acid)) near5 polymer) and ((biodegrade or biodegrading or biodegradation) or ((microorganism or bacteria) same	-				
biodegrading or biodegradation) or ((microorganism or bacteria) same	-			ł.	
	-	6		DERWENT	2002/06/21 10:24
(degrade or degradation)))					
		1		DEDIMENT	2002/06/21 10 26
	-			l .	2002/06/21 10:26
	-	448	433/262.3.ccls.		2002/06/21 10:27
US-PGPUB US-PGPUB		20.4.			
	-	99454	aminoacid or (amino adj2 acid)		2002/06/21 10:28
US-PGPUB US-PGPUB		202125			
	-	382122	polymer		2002/06/21 10:28
US-PGPUB US-PGPUB				US-PGPUB	

-	4003	(aminoacid or (amino adj2 acid)) near5 polymer	USPAT; US-PGPUB	2002/06/21 10:28
-	1	435/262.5.ccls. and ((aminoacid or (amino adj2 acid)) near5 polymer)	USPAT; US-PGPUB	2002/06/21 10:28
-	1350214	carrier or support or immobiliz\$	USPAT; US-PGPUB	2002/06/21 10:34
-	889	((aminoacid or (amino adj2 acid)) near5 polymer) same (carrier or support or immobiliz\$)	USPAT; US-PGPUB	2002/06/21 10:30
-	380	(((aminoacid or (amino adj2 acid)) near5 polymer) same (carrier or support or immobiliz\$)) and 435/\$.ccls.	USPAT; US-PGPUB	2002/06/21 10:30
-	105955	bacteria or microbe or microorganism	USPAT; US-PGPUB	2002/06/21 10:34
-	3701	(carrier or support or immobiliz\$) near5 (bacteria or microbe or microorganism)	USPAT; US-PGPUB	2002/06/21 10:31
-	1	((carrier or support or immobiliz\$) near5 (bacteria or microbe or microorganism)) same ((aminoacid or (amino adj2 acid)) near5 polymer)	USPAT; US-PGPUB	2002/06/21 10:32
-	4560	polyamino	USPAT; US-PGPUB	2002/06/21 10:32
-	1	((carrier or support or immobiliz\$) near5 (bacteria or microbe or microorganism)) same polyamino	USPAT; US-PGPUB	2002/06/21 10:33
-	636	210/150.ccls.	USPAT; US-PGPUB	2002/06/21 10:33
-	1	210/150.ccls. and levan	USPAT; US-PGPUB	2002/06/21 10:33
-	1124304	carrier or support or immobiliz\$	DERWENT	2002/06/21 10:34
-	96287	bacteria or microbe or microorganism	DERWENT	2002/06/21 10:34
-	4651	(carrier or support or immobiliz\$) same (bacteria or microbe or microorganism)	DERWENT	2002/06/21 10:34
_	190	levan	DERWENT	2002/06/21 10:35
-	2	((carrier or support or immobiliz\$) same (bacteria or microbe or microorganism)) and levan	DERWENT	2002/06/21 10:35
_	4407	fructose	DERWENT	2002/06/21 10:35
-	14	((carrier or support or immobiliz\$) same (bacteria or microbe or microorganism)) and fructose	DERWENT	2002/06/21 10:36
_	506	c12n011/10.ipc.	DERWENT	2002/06/21 10:37
_	0	c12n011/10.ipc. and levan	DERWENT	2002/06/21 10:48
-	254	435/177-182.ccls. and fructose	USPAT;	2002/06/21 10:50
-	243	fructose near5 polymer	US-PGPUB USPAT,	2002/06/21 10:50
-	3	(fructose near5 polymer) and 435/177-182.ccls.	US-PGPUB USPAT;	2002/06/21 10:51
-	446	435/178.ccls.	US-PGPUB USPAT;	2002/06/21 10:52
-	81212	gum	US-PGPUB USPAT;	2002/06/21 10:52
-	88	435/178.ccls. and gum	US-PGPUB USPAT; US-PGPUB	2002/06/21 10:53
-	0	tsuchiya-a\$in.	JPO; DERWENT	2002/06/21 10:54
-	3060	pollutants.ti.	JPO; DERWENT	2002/06/21 10:54
-	242131	treatment.ti.	JPO; DERWENT	2002/06/21 10:54
-	. 251	pollutants.ti. and treatment.ti.	JPO; DERWENT	2002/06/21 10:59
-	28486	b09b003/00.ipc.	JPO; DERWENT	2002/06/21 10:59
-	232	levan	JPO; DERWENT	2002/06/21 11:00
-	0	b09b003/00.ipc. and levan	JPO; DERWENT	2002/06/21 11:00
-	910 854	c12N011/02.ipc. c12N011/04.ipc.	DERWENT DERWENT	2002/07/19 13:01 2002/07/19 13:01
	·			

Search History 5/30/03 10:26:30 AM Page 3

			-	
•	1669	c12N011/08.ipc.	DERWENT	2002/07/19 13:01
-	509		DERWENT	2002/07/19 13:01
-	3483	· · · · · · · · · · · · · · · · · · ·	DERWENT	2002/07/19 14:35
		c12N011/10.ipc.		
-	752695	polymer	DERWENT	2002/07/19 13:02
] -	1354		DERWENT	2002/07/19 13:02
		c12N011/10.ipc.) and polymer		
-	55005	pollut\$	DERWENT	2002/07/19 13:02
-	5608	1 1 7 1	DERWENT	2002/07/19 13:02
-	19	c12N011/10.ipc. or c12N011/04.ipc. or c12N011/08.ipc. or c12N011/10.ipc. or c12N011/10.ipc.	DERWENT	2002/07/19 13:16
_	746		DERWENT	2002/07/19 13:17
	13	(c12N011/02.ipc. or c12N011/04.ipc. or c12N011/08.ipc. or	DERWENT	2002/07/19 14:08
		c12N011/10.ipc.) and (natural adj polymer)	DERWENT	2002/07/15 14:00
_	35921	microorganism	DERWENT	2002/07/19 14:08
_	875479	support	DERWENT	2002/07/19 14:08
-	1269	microorganism and support	DERWENT	2002/07/19 14:08
j -	192	levan	DERWENT	2002/07/19 14:08
-	0	(microorganism and support) and levan	DERWENT	2002/07/19 14:08
-	3483	c12N011/02.ipc. or c12N011/04.ipc. or c12N011/08.ipc. or	DERWENT	2002/07/19 14:35
	İ	c12N011/10.ipc.		
-	192	levan	DERWENT	2002/07/19 14:35
-	1	(c12N011/02.ipc. or c12N011/04.ipc. or c12N011/08.ipc. or	DERWENT	2002/07/19 14:35
	1051	c12N011/10.ipc.) and levan	Trap . m	
-	1951	435/177-182.ccls.	USPAT;	2002/07/19 14:55
	236	extracellular adj polysaccharide	US-PGPUB	2002/07/10 14:56
-	230	extracential adj polysacchande	USPAT; US-PGPUB	2002/07/19 14:56
1_	3	435/177-182.ccls. and (extracellular adj polysaccharide)	USPAT;	2002/07/19 15:01
		433/17/702.ccis. and (extracertural adj porysacchartae)	US-PGPUB	2002/07/19 15.01
_	978	biofilm	USPAT;	2002/07/19 15:01
			US-PGPUB	2002/07/15 15:01
_	457298	carrier	USPAT;	2002/07/19 15:42
			US-PGPUB	
-	69	biofilm same carrier	USPAT;	2002/07/19 15:15
			US-PGPUB	
-	387515	polymer	USPAT;	2002/07/19 15:16
			US-PGPUB	
-	6	biofilm adj2 polymer	USPAT;	2002/07/19 15:17
		1. 61 . 10 . 1	US-PGPUB	
-	3 0	biofilm adj2 polymer	DERWENT	2002/07/19 15:41
-		carrier same (extracellular adj polymer)	USPAT; US-PGPUB	2002/07/19 15:42
	50	extracellular adj polymer	USPAT;	2002/07/19 15:53
_		Conducertain and polymer	US-PGPUB	2002/07/19 13.33
_	22961	extracellular	USPAT;	2002/07/19 15:53
			US-PGPUB	2002/07/19 19.55
-	204	435/177-182.ccls. and extracellular	USPAT;	2002/07/19 15:57
			US-PGPUB	
-	5	slime adj polymer	USPAT;	2002/07/19 15:57
			US-PGPUB	
-	221	levan	USOCR	2002/09/04 09:37
-	25	poly near5 glutamic	USOCR	2002/09/04 09:38
-	246	levan or (poly near5 glutamic)	USOCR	2002/09/04 09:38
-	5719	immobiliz\$	USOCR	2002/09/04 09:38
-	729	(levan or (poly near5 glutamic)) and immobiliz\$	USOCR	2002/09/04 09:38
-	. 728	poly near5 glutamic	USPAT;	2002/09/04 09:38
_	855	levan	US-PGPUB	2002/00/04 00:20
-	000	ICVAII	USPAT; US-PGPUB	2002/09/04 09:39
_	54708	immobiliz\$	US-PGPUB USPAT;	2002/09/04 09:39
	2,,03		US-PGPUB	2002/03/04 03.39
-	1563	(poly near5 glutamic) or levan	USPAT;	2002/09/10 15:07
			US-PGPUB	
			• • • • • • • • • • • • • • • • • • • •	·

-	13	immobiliz\$ same ((poly near5 glutamic) or levan)	USPAT; US-PGPUB	2002/09/04 09:41
-	639	210/150.ccls.	USPAT; US-PGPUB	2002/09/04 09:41
-	1	((poly near5 glutamic) or levan) and 210/150.ccls.	USPAT; US-PGPUB	2002/09/04 09:43
-	4554	gel adj2 matrix	USPAT;	2002/09/04 09:43
-	0	((poly near5 glutamic) or levan) near5 (gel adj2 matrix)	US-PGPUB USPAT;	2002/09/04 13:59
-	2504	435/174-182.ccls.	US-PGPUB USPAT;	2002/09/04 13:59
-	1563	(poly near5 glutamic) or levan	US-PGPUB USPAT; US-PGPUB	2002/09/04 14:00
-	35	435/174-182.ccls. and ((poly near5 glutamic) or levan)	USPAT; US-PGPUB	2002/09/04 14:00
-	1571	(poly near5 glutamic) or levan	USPAT; US-PGPUB	2002/09/10 15:13
-	1571	(poly near5 glutamic) or levan	USPAT; US-PGPUB	2002/09/10 15:19
_	86249	b01d053/\$.ipc. or c02f003/\$.ipc.	DERWENT	2002/09/11 06:47
-	1514	natural adj2 polymer	DERWENT	2002/09/10 15:15
1 -	19	(b01d053/\$.ipc. or c02f003/\$.ipc.) and (natural adj2 polymer)	DERWENT	2002/09/10 15:19
_	371	(poly near5 glutamic) or levan	DERWENT	2002/09/10 15:19
	74180	gel	DERWENT	2002/09/10 15:19
-	32	((poly near5 glutamic) or levan) and gel		2002/09/10 15:21
-	81989		DERWENT	
-		crosslink\$ or (cross adj2 link\$)	DERWENT	2002/09/10 15:21
-	14	((poly near5 glutamic) or levan) same (crosslink\$ or (cross adj2 link\$))	DERWENT	2002/09/10 15:22
-	721	cationic adj3 salt	DERWENT	2002/09/10 15:23
-	0	((poly near5 glutamic) or levan) and (cationic adj3 salt)	DERWENT	2002/09/10 15:23
-	4179	cationic adj3 salt	USPAT; US-PGPUB	2002/09/10 15:23
-	0	((poly near5 glutamic) or levan) same (cationic adj3 salt)	USPAT; US-PGPUB	2002/09/10 15:23
-	16	((poly near5 glutamic) or levan) and (cationic adj3 salt)	USPAT; US-PGPUB	2002/09/10 15:25
-	1	(cationic adj3 salt) and (b01d053/\$.ipc. or c02f003/\$.ipc.)	DERWENT	2002/09/10 15:25
-	6269	calcium adj2 chloride	DERWENT	2002/09/10 15:37
-	358	(b01d053/\$.ipc. or c02f003/\$.ipc.) and (calcium adj2 chloride)	DERWENT	2002/09/10 15:26
-	0	((b01d053/\$.ipc. or c02f003/\$.ipc.) and (calcium adj2 chloride)) and ((b01d053/\$.ipc. or c02f003/\$.ipc.) and (natural adj2 polymer))	DERWENT	2002/09/10 15:26
-	814028	gel or polymer	DERWENT	2002/09/10 15:26
-	5461	(b01d053/\$.ipc. or c02f003/\$.ipc.) and (gel or polymer)	DERWENT	2002/09/10 15:26
-	. 0	((b01d053/\$.ipc. or c02f003/\$.ipc.) and (gel or polymer)) and (cationic adj3 salt)	DERWENT	2002/09/10 15:26
-	178970	chloride	DERWENT	2002/09/10 15:33
-	. 1	chloride and ((b01d053/\$.ipc. or c02f003/\$.ipc.) and (natural adj2 polymer))	DERWENT	2002/09/10 15:32
-	1966	435/177-182.ccls.	USPAT; US-PGPUB	2002/09/10 15:33
-	415996	chloride	USPAT; US-PGPUB	2002/09/10 15:33
-	1180	435/177-182.ccls. and chloride	USPAT; US-PGPUB	2002/09/10 15:33
-	250749	gel	USPAT; US-PGPUB	2002/09/10 15:33
-	54694	chloride same gel	USPAT; US-PGPUB	2002/09/10 15:34
-	263	435/177-182 ccls. and (chloride same gel)	USPAT; US-PGPUB	2002/09/10 15:34
-	12831	natural adj3 polymer	USPAT; US-PGPUB	2002/09/10 15:34
-	913	gel same (natural adj3 polymer)	USPAT; US-PGPUB	2002/09/10 15:35
				

	1	(chloride same (gel same (natural adj3 polymer))) and 435/177-182.ccls.	USPAT; US-PGPUB	2002/09/10 15:35
-	59	chloride same (gel same (natural adj3 polymer))	USPAT; US-PGPUB	2002/09/10 15:35
-	29927	calcium adj2 chloride	USPAT;	2002/09/10 15:37
, -	2491	gel same (calcium adj2 chloride)	US-PGPUB USPAT;	2002/09/10 15:37
-	14	(gel same (calcium adj2 chloride)) same (natural adj3 polymer)	US-PGPUB USPAT;	2002/09/10 15:38
-	1	435/177-182.ccls. and ((gel same (calcium adj2 chloride)) same (natural	US-PGPUB USPAT;	2002/09/10 15:38
-	87	adj3 polymer)) 435/177-182.ccls. and (gel same (calcium adj2 chloride))	US-PGPUB USPAT;	2002/09/10 15:49
-	23	(natural adj3 polymer) same (calcium adj2 chloride)	US-PGPUB USPAT;	2002/09/10 15:51
-	11878	(gel or gelling) adj2 agent	US-PGPUB USPAT;	2002/09/10 15:52
-	2	((poly near5 glutamic) or levan) same ((gel or gelling) adj2 agent)	US-PGPUB USPAT;	2002/09/10 15:52
-	37	((poly near5 glutamic) or levan) and ((gel or gelling) adj2 agent)	US-PGPUB USPAT;	2002/09/10 15:53
-	6	((poly near5 glutamic) or levan) same (calcium adj2 chloride)	US-PGPUB USPAT;	2002/09/10 15:54
-	86249	b01d053/\$.ipc. or c02f003/\$.ipc.	US-PGPUB DERWENT	2002/09/11 06:47
-	2562	xanthan	DERWENT	2002/09/11 06:47
-	4	(b01d053/\$.ipc. or c02f003/\$.ipc.) and xanthan	DERWENT	2002/09/11 08:38
-	11862	xanthan	USPAT; US-PGPUB	2002/09/11 08:39
-	463	435/262.5.ccls.	USPAT; US-PGPUB	2002/09/11 08:41
-	4	xanthan and 435/262.5.ccls.	USPAT; US-PGPUB	2002/09/11 08:39
-	655	435/262.ccls.	USPAT; US-PGPUB	2002/09/11 08:41
-	11	xanthan and 435/262.ccls.	USPAT; US-PGPUB	2002/09/11 08:42
-	13681	biodegrad\$	DERWENT	2002/09/11 08:42
-	38	xanthan and biodegrad\$	DERWENT	2002/09/11 08:44
] -	288	bioremed\$	DERWENT	2002/09/11 08:44
-	1	xanthan and bioremed\$	DERWENT	2002/09/11 08:44
-	86965	microorganism or bacteria	DERWENT	2002/09/11 08:44
-	5051	immobiliz\$	DERWENT	2002/09/11 08:44
-	154	(microorganism or bacteria) near3 immobiliz\$	DERWENT	2002/09/11 08:45
-	0	xanthan and ((microorganism or bacteria) near3 immobiliz\$)	DERWENT	2002/09/11 08:45
-	27962	encapsul\$	DERWENT	2002/09/11 08:45
-	114	(microorganism or bacteria) near5 encapsul\$	DERWENT	2002/09/11 08:45
-	0	((microorganism or bacteria) near5 encapsul\$) and xanthan	DERWENT	2002/09/11 08:45
-	89372	xanthan samd (microorganism or bacteria)	DERWENT	2002/09/11 08:45
-	39711	bead	DERWENT	2002/09/11 08:45
-	1	xanthan and bead and (microorganism or bacteria)	DERWENT	2002/09/11 08:46
-	1138515	support or carrier	DERWENT	2002/09/11 08:46
-	2412	(microorganism or bacteria) near5 (support or carrier)	DERWENT	2002/09/11 08:46
-	2	xanthan and ((microorganism or bacteria) near5 (support or carrier))	DERWENT	2002/09/11 08:47
-	3466	210/601-632.ccls.	USPAT; US-PGPUB	2002/09/11 08:47
	16	210/601-632.ccls. and xanthan	USPAT; US-PGPUB	2002/09/11 08:54
-	- 565	435/182.ccls.	USPAT; US-PGPUB	2002/09/11 08:54
-	453	435/178.ccls.	USPAT; US-PGPUB	2002/09/11 08:54
-	859	435/182.ccls. or 435/178.ccls.	USPAT; US-PGPUB	2002/09/11 08:55

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-	60	(435/182 ccls. or 435/178 ccls.) and xanthan	USPAT;	2002/09/11 08:59
	643	405/128.\$.ccls.	US-PGPUB USPAT;	2002/09/11 08:59
-	6	xanthan and 405/128.\$.ccls.	US-PGPUB USPAT;	2002/09/11 09:00
-	0	405/128.\$.ccls. and levan	US-PGPUB USPAT;	2002/09/11 09:00
- '	12	210/601-632.ccls. and levan	US-PGPUB USPAT;	2002/09/11 09:00
_	463	435/262.5.ccls.	US-PGPUB USPAT;	2002/09/11 09:38
_	3466	210/601-632.ccls.	US-PGPUB USPAT;	2002/09/11 09:38
_	3741	435/262.5.ccls, or 210/601-632.ccls.	US-PGPUB USPAT;	2002/09/11 09:39
	2343	dehalogenat\$	US-PGPUB USPAT;	2002/09/11 09:39
	90	(435/262.5.ccls. or 210/601-632.ccls.) and dehalogenat\$	US-PGPUB USPAT;	2002/09/11 09:39
-		, , , , , , , , , , , , , , , , , , ,	US-PGPUB	
-	10937	natural adj2 polymer	USPAT; US-PGPUB	2002/09/11 09:39
-	0	((435/262.5.ccls. or 210/601-632.ccls.) and dehalogenat\$) and (natural adj2 polymer)	USPAT; US-PGPUB	2002/09/11 09:39
-	126590	bead	USPAT; US-PGPUB	2002/09/11 09:39
-	10	((435/262.5.ccls. or 210/601-632.ccls.) and dehalogenat\$) and bead	USPAT; US-PGPUB	2002/09/11 09:42
_	2779	gel near3 bead	USPAT; US-PGPUB	2002/09/11 09:42
-	2	dehalogenat\$ and (gel near3 bead)	USPAT; US-PGPUB	2002/09/11 09:42
	9	aglinate	USPAT; US-PGPUB	2002/09/11 09:42
-	0	dehalogenat\$ same aglinate	USPAT; US-PGPUB	2002/09/11 09:43
-	28159	alginate	USPAT; US-PGPUB	2002/09/11 09:43
-	0	dehalogenat\$ same aglinate	USPAT; US-PGPUB	2002/09/11 09:43
-	0	dehalogenat\$ same alginate	USPAT; US-PGPUB	2002/09/11 09:43
-	137	dehalogenat\$ and alginate	USPAT; US-PGPUB	2002/09/11 09:44
-	83	(435/262.5.ccls. or 210/601-632.ccls.) and alginate	USPAT; US-PGPUB	2002/09/11 09:44
-	33026	phenylalanine	USPAT; US-PGPUB;	2003/05/29 14:43
			ЕРО; ЛРО;	
	45767	alanina	DERWENT; IBM_TDB	2002/05/20 14:42
-	43/6/	alanine	USPAT; US-PGPUB;	2003/05/29 14:43
			EPO; JPO; DERWENT;	
-	34325	leucine	IBM_TDB USPAT;	2003/05/29 14:43
			US-PGPUB; EPO; JPO;	
			DERWENT; IBM_TDB	

			· — —	
-	39009	glutamic adj2 acid	USPAT;	2003/05/29 14:44
			US-PGPUB;	
			ЕРО; ЈРО;	
			DERWENT;	
			IBM_TDB	
-	4304	polyamino adj2 acid	USPAT;	2003/05/29 14:44
			US-PGPUB;	
			ЕРО; ЈРО;	
			DERWENT;	
			IBM_TDB	
-	2671	poly adj2 amino adj2 acid	USPAT;	2003/05/29 14:44
			US-PGPUB;	
			ЕРО; ЛРО;	
			DERWENT,	
			IBM_TDB	
<u>-</u>	86146	phenylalanine or alanine or leucine or (glutamic adj2 acid) or	USPĀT;	2003/05/30 07:20
		(polyamino adj2 acid) or (poly adj2 amino adj2 acid)	US-PGPUB;	
		(poryamino adje acra) or (pory adje amino adje arra)	ЕРО; ЛРО;	:
			DERWENT;	
			IBM_TDB	
1_	4317	435/174-182.ccls.	USPAT;	2003/05/29 14:46
1	431/	+331117-102.0018.	US-PGPUB;	2003/03/27 17.40
			ЕРО; ЛРО;	
			DERWENT;	
	İ	,	IBM TDB	
	506	(ab and -1-vin - and -1-vin - and -1-vin - and -1-vin - add)		2003/05/29 14:47
-	586	(phenylalanine or alanine or leucine or (glutamic adj2 acid) or	USPAT;	2003/03/29 14.47
		(polyamino adj2 acid) or (poly adj2 amino adj2 acid)) and	US-PGPUB;	
		435/174-182.ccls.	ЕРО; ЛРО;	
			DERWENT;	
			IBM_TDB	0000/05/00 15 00
-	2676	immobiliz\$ near5 (microorganism or bacteria)	USPAT;	2003/05/29 15:30
			US-PGPUB;	
			ЕРО; ЛРО;	
1			DERWENT;	
			IBM_TDB	
i -	56	((phenylalanine or alanine or leucine or (glutamic adj2 acid) or	USPAT;	2003/05/29 14:51
	Ì	(polyamino adj2 acid) or (poly adj2 amino adj2 acid)) and	US-PGPUB;	
		435/174-182.ccls.) and (immobiliz\$ near5 (microorganism or bacteria))	ЕРО; ЛРО;	
			DERWENT;	
			IBM_TDB	
-	32	(phenylalanine or alanine or leucine or (glutamic adj2 acid) or	USPAT;	2003/05/29 14:58
		(polyamino adj2 acid) or (poly adj2 amino adj2 acid)) same (immobiliz\$	US-PGPUB;	
		near5 (microorganism or bacteria))	ЕРО; ЛРО;	
			DERWENT;	
			IBM_TDB	
-	10700	c12n011/\$.ipc.	USPAT;	2003/05/29 14:59
			US-PGPUB;	
			ЕРО; ЛРО;	
] i		DERWENT;	
]		IBM_TDB	
-	445	(phenylalanine or alanine or leucine or (glutamic adj2 acid) or	USPĀT;	2003/05/29 15:30
		(polyamino adj2 acid) or (poly adj2 amino adj2 acid)) and	US-PGPUB;	
		c12n011/\$.ipc.	ЕРО, ЈРО,	
		•	DERWENT;	
1			IBM_TDB	
-	1441	10.ab.	USPAT;	2003/05/29 15:30
			US-PGPUB;	12.12.27
			ЕРО; ЛРО;	
			DERWENT;	
			IBM_TDB	
		I	1 40414 100	

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-	1441	(immobiliz\$ near5 (microorganism or bacteria)).ab.	USPAT;	2003/05/29 15:30
			US-PGPUB;	
			ЕРО; ЛРО;	
			DERWENT,	
			IBM TDB	
1_	21640	7.ab.	USPĀT;	2003/05/29 15:30
		1.00	US-PGPUB;	
			ЕРО; ЛРО;	
	-		DERWENT;	
1			IBM TDB	
	,,	((immobiliz\$ near5 (microorganism or bacteria)).ab.) and 7.ab.	USPAT;	2003/05/29 15:43
-	11	((immobiliza near) (microorganism of bacteria)).ab.) and 7.ab.		2003/03/29 13.43
		,	US-PGPUB;	
			ЕРО; ЛРО;	
			DERWENT;	
			IBM_TDB	
-	3976	mucin	USPAT;	2003/05/29 15:43
			US-PGPUB;	
			ЕРО; ЈРО;	
			DERWENT;	<u> </u>
1			IBM_TDB	
_	21	mucin and (435/174-182.ccls. or c12n011/\$.ipc.)	USPĀT;	2003/05/29 15:51
		mann and (1887) 17 18 18 18 18 18 18 18 18 18 18 18 18 18	US-PGPUB;	
			ЕРО; ЛРО;	
1			DERWENT;	
	1		IBM_TDB	
1	1257	levan	USPAT;	2003/05/29 15:51
-	1237	levan		2003/03/29 13.31
			US-PGPUB,	
			ЕРО; ЛРО;	
			DERWENT;	
			IBM_TDB	
-	78	adhesive adj2 polysaccharide	USPAT;	2003/05/29 15:52
			US-PGPUB;	
1			ЕРО; ЈРО;	
			DERWENT;	
			IBM_TDB	
-	5286	mucin or levan or (adhesive adj2 polysaccharide)	USPAT;	2003/05/29 15:52
			US-PGPUB,	
			ЕРО; ЈРО;	
			DERWENT,	
			IBM_TDB	
_	209742	amino adj2 acid	USPAT;	2003/05/29 15:52
			US-PGPUB;	
			ЕРО; ЛРО;	
			DERWENT;	
			IBM_TDB	
_	234241	phenylalanine or alanine or leucine or (glutamic adj2 acid) or	USPAT;	2003/05/30 07:21
-	234241	(polyamino adj2 acid) or (amino adj2 acid)		2003103130 01.21
		(poryanimo adjž acid) or (animo adjž acid)	US-PGPUB;	
			ЕРО; ЛРО;	
			DERWENT;	
]	00.4000		IBM_TDB	2002/05/20 15 55
-	234298	(adhesive adj2 polysaccharide) or (phenylalanine or alanine or leucine or	USPAT;	2003/05/29 15:53
		(glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid))	US-PGPUB;	
			ЕРО; ЛРО;	
			DERWENT;	
			IBM_TDB	
-	236679	(mucin or levan or (adhesive adj2 polysaccharide)) or (phenylalanine or	USPAT;	2003/05/29 15:53
		alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or	US-PGPUB;	
		(amino adj2 acid))	EPO; JPO;	
j		·	DERWENT,	
			IBM_TDB	
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18409 (fautania or levano or (adhiesive adj2 polysaccharide)) or (polysmina adj2 acid) or (amino adj2 acid))) same (bacteria or microorganism) USPAT, US-RPCUB, EPO, PPO, PPO, PPO, PPO, PPO, PPO, PPO					
Camino adj2 acid))) same (bacteria or microorganism) EPO, PPO, PPO, PPO, PPO, PPO, PPO, PPO,	-	18409	((mucin or levan or (adhesive adj2 polysaccharide)) or (phenylalanine or	USPAT;	2003/05/29 15:54
Camino adj2 acid))) same (bacteria or microorganism) EPO, PPO, PPO, PPO, PPO, PPO, PPO, PPO,			alanine or leucine or (glutamic adi2 acid) or (polyamino adi2 acid) or	US-PGPUB;	*
24					
24		İ	(animo aaja asta))) same (sastem of misrosigamon)		
24					
levan or (adhesive adj2 polysaccharide) or (phenylalamine or alamine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 Der veries of (glutamic adj2 acid) or (amino adj2 Der veries of (glutamic adj2 acid) or (polyamino adj2 acid) or (polyamino adj2 acid) or (polyamino adj2 acid) or (polyamino adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid) or (polyamino adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid) or (amino adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid)		1			*****
Leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid) EPO, IPO, DERWENT, IBM, TDB USPAT, USP-GPUB, EPO, IPO, DERWENT, IBM, TDB U	-	24			2003/05/29 15:57
acid))) water adj2 soluble adj2 polysaccharide DERWENT; BM_TDB USPAT, US-POPUB; EPO, JPO, DERWENT; BM TDB USPAT; US-POPUB; EPO, JPO, DERWENT; BM TDB US-PAT; US-POPUB; EPO, JPO, DERWENT; EPO, JPO, DERWENT; EPO, JPO, DERWENT; E			levan or (adhesive adj2 polysaccharide)) or (phenylalanine or alanine or	US-PGPUB;	
2590 water adj2 soluble adj2 polysaccharide BM_TDB USPAT, US-POPUB; EPO, PPO, DERWENT; BM_TDB USPAT, US-POPUB; EPO, PPO, DERWENT; BM_TDB USPAT, US-POPUB; EPO, PPO, DERWENT; BM_TDB USPAT, US-POPUB; EPO, PPO, DERWENT; BM_TDB USPAT, US-POPUB; EPO, PPO, DERWENT; BM_TDB USPAT, US-POPUB; EPO, PPO, DERWENT; BM_TDB USPAT, US-POPUB; EPO, PPO, DERWENT; BM_TDB USPAT, US-POPUB; EPO, PPO, DERWENT; BM_TDB USPAT, US-POPUB; EPO, PPO, DERWENT; BM_TDB USPAT, US-POPUB; EPO, PPO, DERWENT; BM_TDB USPAT, US-POPUB; EPO, PPO, DERWENT; BM_TDB USPAT; US-POPUB; EPO, PPO, DERWENT; BM_TDB US-PAT; US-			leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2	ЕРО; ЈРО;	
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- 2820 (phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid)) near5 (gel or precipitate) - 265556 microorganism or bacteria - 35 ((phenylalanine or alanine or leucine or (glutamic adj2 acid) or USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO, JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; US-PGPUB; EPO; JPO; D	-	336/14	ger or precipitate		2003/03/30 07.21
- 2820 (phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid)) near5 (gel or precipitate) - 265556 microorganism or bacteria - 35 ((phenylalanine or alanine or leucine or (glutamic adj2 acid) or (uS-PGPUB; EPO; JPO; DERWENT; IBM, TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISPAT; US-P					
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US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; USPAT	1]			
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- 35 ((phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid)) near5 (gel or precipitate)) - 8 levan near5 (gel or precipitate) - 8 levan near5 (gel or precipitate) - 5 ("3033758" "3067037" "3996389" "4335207" "4356252").PN 4 4879228.URPN 3 2673828.pn 2 4399221.pn 2 4399221.pn 2 2 4399221.pn 2 2 003/05/30 07:39 - 3 2003/05/30 07:39 - 4 399221.pn 2 2 003/05/30 07:39 - 3 2003/05/30 07:39 - 4 399221.pn 2 2 2 003/05/30 07:39 - 3 2 003/05/30 07:39 - 4 399221.pn.				US-PGPUB;	
- 35 ((phenylalanine or alanine or leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2 acid)) near5 (gel or precipitate)) - 8 levan near5 (gel or precipitate) - 8 levan near5 (gel or precipitate) - 5 ("3033758" "3067037" "3996389" "4335207" "4356252").PN 4 4879228.URPN 3 2673828.pn 2 4399221.pn 2 4399221.pn 2 2 4399221.pn 2 2 003/05/30 07:39 - 3 2003/05/30 07:39 - 4 399221.pn 2 2 003/05/30 07:39 - 3 2003/05/30 07:39 - 4 399221.pn 2 2 2 003/05/30 07:39 - 3 2 003/05/30 07:39 - 4 399221.pn.				ЕРО; ЈРО;	
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Same (microorganism or bacteria)	_	35			2003103130 07.23
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- 8 levan near5 (gel or precipitate) 8 levan near5 (gel or precipitate) 9 USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB 1			·		
US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT USPAT USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT USPAT; USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; US-					
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- 5 ("3033758" "3067037" "3996389" "4335207" "4356252").PN. USPAT 2003/05/30 07:29 - 4 4879228.URPN. USPAT; USPAT; USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB - 2 4399221.pn. USPAT; US-PGPUB; EPO; JPO; DERWENT;]			
- 5 ("3033758" "3067037" "3996389" "4335207" "4356252").PN. USPAT	[
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- 4 4879228.URPN. USPAT USPAT; US-PGPUB; EPO; JPO; DERWENT;]	ا ہے	(#2022750# #2047027# #2004200# #4225207# #4254252#\ DSX		2002/05/20 25 25
- 3 2673828.pn. USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; US-PGPUB; EPO; JPO; DERWENT; US-PGPUB; EPO; JPO; DERWENT; DERWENT; DERWENT; DERWENT; DERWENT; US-PGPUB; EPO; JPO; DERWENT; DERWENT; DERWENT;	-				
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US-PGPUB; EPO; JPO; DERWENT;	<u> </u>	ا م ا	4390221 pp		2002/05/20 07:20
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				IBM_TDB	

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			DERWENT;	
			IBM_TDB	
	3	("3096293" "3406114" "3655512").PN.	USPAT	2003/05/30 07:48
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ŀ			DERWENT;	
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-	10700	c12n011/\$.ipc.	USPAT;	2003/05/30 08:09
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			ЕРО; ЛРО;	
			DERWENT;	
			IBM_TDB	
_	12273	435/174-182.ccls. or c12n011/\$.ipc.	USPAT;	2003/05/30 08:09
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	1		EPO; JPO;	
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	101500		IBM_TDB	
-	181792	emulsif\$	USPAT;	2003/05/30 08:09
	1		US-PGPUB;	
			ЕРО; ЈРО;	
			DERWENT;	
İ			IBM_TDB	
-	2640	(phenylalanine or alanine or leucine or (glutamic adj2 acid) or	USPĀT;	2003/05/30 08:09
		(polyamino adj2 acid) or (amino adj2 acid)) same emulsif\$	US-PGPUB;	
		(F)	ЕРО; ЛРО;	
	f		DERWENT;	
			IBM_TDB	
	9	(435/174 192 cols or a12n011/\$ inc.) and ((nhamulalaning or alaning or	_	2002/05/20 08:10
-	9	(435/174-182.ccls. or c12n011/\$.ipc.) and ((phenylalanine or alanine or	USPAT;	2003/05/30 08:10
		leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2	US-PGPUB;	
		acid)) same emulsif\$)	ЕРО; ЛРО;	
1			DERWENT;	
			IBM_TDB	
-	615098	stabiliz\$	USPAT;	2003/05/30 08:10
			US-PGPUB;	
	1		EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	9241	(phenylalanine or alanine or leucine or (glutamic adj2 acid) or	USPĀT;	2003/05/30 08:10
		(polyamino adj2 acid) or (amino adj2 acid)) same stabiliz\$	US-PGPUB;	
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]		IBM TDB	
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1	53	leucine or (glutamic adj2 acid) or (polyamino adj2 acid) or (amino adj2		2003103030 00.18
			US-PGPUB;	•
]	acid)) same stabiliz\$)	ЕРО; ЛРО;	
1			DERWENT;	
1		10.011/00.1	IBM_TDB	
-	4033	c12n011/02.ipc. or c12n011/04.ipc. or c12n011/10.ipc.	USPAT;	2003/05/30 08:19
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1			DERWENT;	
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-	5	(c12n011/02.ipc. or c12n011/04.ipc. or c12n011/10.ipc.) and levan	USPAT;	2003/05/30 08:21
	j l	, , , , , , , , , , , , , , , , , , ,	US-PGPUB;	
		i	EPO; JPO;	
			DERWENT;	ļ
			IBM_TDB	l
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-	411	(c12n011/02.ipc. or c12n011/04.ipc. or c12n011/10.ipc.) and	USPAT;	2003/05/30 08:21
		(phenylalanine or alanine or leucine or (glutamic adj2 acid) or	US-PGPUB;	
1		(polyamino adj2 acid) or (amino adj2 acid))	ЕРО; ЛРО;	
			DERWENT;	
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-	265556	microorganism or bacteria	USPAT;	2003/05/30 08:22
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			ЕРО; ЈРО;	
			DERWENT;	
			IBM TDB	
-	172	((c12n011/02.ipc. or c12n011/04.ipc. or c12n011/10.ipc.) and	USPAT,	2003/05/30 10:10
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			IBM_TDB	

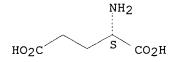
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L9
    25513-46-6 REGISTRY
RN
    L-Glutamic acid, homopolymer (9CI) (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
    Glutamic acid, L-, peptides (8CI)
OTHER NAMES:
    .alpha.-L-Glutamic acid polymer
CN
     .gamma.-L-Polyglutamic acid
CN
     Glutamic acid homopolymer
CN
CN
     Glutamic acid polymer
     L-Glutamic acid polymer
CN
CN
     PGA
     Poly(.alpha.-L-glutamic acid)
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     Poly(L-glutamic acid)
     Poly-L-glutamate
CN
CN
     Polyglutamic acid
FS
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     24938-00-9, 115529-71-0, 66415-63-2, 141982-72-1, 84960-48-5, 26717-13-5
DR
MF
     (C5 H9 N O4)x
CI
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     Polyamide, Polyamide formed
PCT
     STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
LC
       CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CIN, CSCHEM, DDFU,
       DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, PIRA,
       PROMT, RTECS*, TOXCENTER, TULSA, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
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RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 56-86-0 CMF C5 H9 N O4

Absolute stereochemistry.



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371 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1599 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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- RN 9013-95-0 REGISTRY
- CN Levan (9CI) (CA INDEX NAME)

OTHER NAMES:

- CN Gum levan
- CN Gums, Pseudomonas
- DR 9037-89-2
- MF Unspecified
- CI PMS, COM, MAN
- PCT Manual registration
- LC STN Files: BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, NAPRALERT, TOXCENTER, USPATFULL

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